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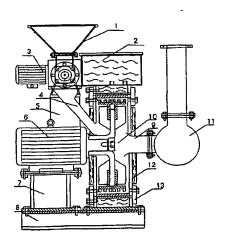
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- (54) Title: HIGH TURBULENCE MILL AND ITS BI-NEGATIVE PRESSURE TURBINE
- (54) 发明名称: 高度湍流磨及其双负压涡轮



(57) Abstract: The invention relates to a high turbulence mill for processing supermicro powder and nano materials, including a driving device provided on a base; a hollow grinding chamber on which a stator guide toothed ring is secured; a bi-negative pressure turbine rotatablely provided in the said grinding chamber; a hopper for feeding material via a feed-in tube into the grinding chamber; an outlet tube connected with the grinding chamber for transporting pulverized product; and a controlling device for electrically operating and controlling the high turbulence mill. When the especially designed bi-negative pressure turbine rotates at high speed by the driving of an electric shaft in the grinding chamber, high vortex and turbulence is formed in the grinding chamber, thereby generates gas-solid two phase current. By the high turbulence, materials are severely ground by themselves each other and generate severe collision and wear force, therefore materials are crashed effectively.

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